



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/761,304		01/22/2004	Yasuhiko Shiomi	1232-4633US1	3091	
27123	7590	05/09/2005		EXAMINER		
MORGAN	& FINN	EGAN, L.L.P.	COUSO, JOSE L			
3 WORLD FINANCIAL CENTER NEW YORK, NY 10281-2101				ART UNIT	PAPER NUMBER	
				ARTONII	FAFER NUMBER	
				2621		
				DATE MAILED: 05/09/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/761,304	SHIOMI, YASUHIKO				
	Office Action Summary	Examiner	Art Unit				
		Jose L. Couso	2621				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply or period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim  y within the statutory minimum of thirty (30) days  will apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 28 Fe	ebruary 2 <u>005</u> .					
· ·		action is non-final.					
3)□							
Disposit	ion of Claims						
5)[\	<ul> <li>□ Claim(s) 13-22 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>□ Claim(s) 17-22 is/are allowed.</li> <li>□ Claim(s) is/are objected to.</li> </ul>						
Applicat	ion Papers	·					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>22 January 2004</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	a) accepted or b) objected or b) objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority (	under 35 U.S.C. § 119						
a)l	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No. <u>09/603,629</u> . ed in this National Stage				
Attachmen	t(s)						
_	e of References Cited (PTO-892)	4) Interview Summary					
2) 🔲 Notic 3) 🔲 Infori	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da					

Application/Control Number: 10/761,304

Art Unit: 2621

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 13-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Topper et al. (U.S. Patent No. 5,157,497).

In regard to claim 13, Topper describes a plurality of pixels arranged to sense an object (see figure 1, element 500 and refer for example to column 5, lines 20-32, the camera has "photo sensitive sensors 530" which correspond to applicant's plurality of pixels because a photosensitive sensor is composed of a plurality of picture sensing elements which are used to sense an object)? and a switch arranged to switch. respectively, first horizontal and vertical linear correction data and second horizontal and vertical linear correction data in accordance with a position of a pixel of interest among the plurality of pixels (see figure 2, element 110 and refer for example to column 8, lines 44-60, the microprocessor acts as a switch by controlling the appropriate gain coefficient in the horizontal and vertical direction via adders at the timing corresponding to the image location of a particular pixel to be corrected); the first correction data being commonly used for correcting at least first and second pixels of the plurality of pixels, the second correction data being used for correcting a third pixel of the plurality of pixels (see figure 2 and refer for example to column 9, line 46 through column 11, line 39). Topper provides for a vertical correction first by using the vertical correction memory to commonly correct a plurality of pixels (element 40 in figure 2), these values correspond

Application/Control Number: 10/761,304

Art Unit: 2621

to applicant's first correction data. By using the vertical correction memory Topper obtains the video correction values as shown in Table 2. The corrected values in this table include at least first and second pixels of the plurality of pixels, such as for example the pixels at location line 1, column 1 and location line 3, column 3. Topper then provides for a horizontal correction by using the horizontal correction memory to commonly correct a plurality of pixels (element 30 in figure 2), these values correspond to applicant's second correction data. By using the horizontal correction memory Topper obtains the video correction values as shown in Table 4. The corrected values in this table include a third pixel of the plurality of pixels, such as for example the pixel at location line 5, column 5.

With regard to claim 14, Topper describes a switch arranged to switch, respectively, first horizontal and vertical linear correction data and second horizontal and vertical linear correction data in accordance with a position of a pixel of interest among the plurality of pixels (see figure 2, element 110 and refer for example to column 8, lines 44-60, the microprocessor acts as a switch by controlling the appropriate gain coefficient in the horizontal and vertical direction via adders at the timing corresponding to the image location of a particular pixel to be corrected); the first correction data being commonly used for correcting at least first and second pixels of the plurality of pixels the second correction data being used for correcting a third pixel of the plurality of pixels (see figure 2 and refer for example to column 9, line 46 through column 11, line 39). Topper provides for a vertical correction first by using the vertical correction memory to commonly correct a plurality of pixels (element 40 in figure 2), these values correspond

Art Unit: 2621

to applicant's first correction data. By using the vertical correction memory Topper obtains the video correction values as shown in Table 2. The corrected values in this table include at least first and second pixels of the plurality of pixels, such as for example the pixels at location line 1, column 1 and location line 3, column 3. Topper then provides for a horizontal correction by using the horizontal correction memory to commonly correct a plurality of pixels (element 30 in figure 2), these values correspond to applicant's second correction data. By using the horizontal correction memory Topper obtains the video correction values as shown in Table 4. The corrected values in this table include a third pixel of the plurality of pixels, such as for example the pixel at location line 5, column 5.

As to claim 15, Topper describes respectively switching first horizontal and vertical linear correction data and second horizontal and vertical linear correction data in accordance with a position of a pixel at interest among the plurality of pixels (see figure 2, element 110 and refer for example to column 8, lines 44-60, the microprocessor acts as a switch by controlling the appropriate gain coefficient in the horizontal and vertical direction via adders at the timing corresponding to the image location of a particular pixel to be corrected); the first correction data being commonly used for correcting at least first and second pixels of the plurality of pixels, the second correction data being used for correcting a third pixel of the plurality of pixels see figure 2 and refer for example to column 9, line 46 through column 11, line 39). Topper provides for a vertical correction first by using the vertical correction memory to commonly correct a plurality of pixels (element 40 in figure 2), these values correspond to applicant's first correction

Art Unit: 2621

data. By using the vertical correction memory Topper obtains the video correction values as shown in Table 2. The corrected values in this table include at least first and second pixels of the plurality of pixels, such as for example the pixels at location line 1, column 1 and location line 3, column 3. Topper then provides for a horizontal correction by using the horizontal correction memory to commonly correct a plurality of pixels (element 30 in figure 2), these values correspond to applicant's second correction data. By using the horizontal correction memory Topper obtains the video correction values as shown in Table 4. The corrected values in this table include a third pixel of the plurality of pixels, such as for example the pixel at location line 5, column 5.

In regard to claim 16, Topper describes respectively switching for first horizontal and vertical linear correction data and second horizontal and vertical linear correction data in accordance with a position of a pixel of interest among the plurality of pixels (see figure 2, element 110 and refer for example to column 8, lines 44-60, the microprocessor acts as a switch by controlling the appropriate gain coefficient in the horizontal and vertical direction via adders at the timing corresponding to the image location of a particular pixel to be corrected); the first correction data being commonly used for correcting at least first and second pixels of the plurality of pixels, the second correction data being used for correcting a third pixel of the plurality of pixels see figure 2 and refer for example to column 9, line 46 through column 11, line 39). Topper provides for a vertical correction first by using the vertical correction memory to comm. only correct a plurality of pixels (element 40 in figure 2), these values correspond to applicant's first correction data. By using the vertical correction memory Topper obtains

Application/Control Number: 10/761,304 Page 6

Art Unit: 2621

the video correction values as shown in Table 2. The corrected values in this table include at least first and second pixels of the plurality of pixels, such as for example the pixels at location line 1, column 1 and location line 3, column 3. Topper then provides for a horizontal correction by using the horizontal correction memory to commonly correct a plurality of pixels (element 30 in figure 2), these values correspond to applicant's second correction data. By using the horizontal correction memory Topper obtains the video correction values as shown in Table 4. The corrected values in this table include a third pixel of the plurality of pixels, such as for example the pixel at location line 5, column 5.

- 3. Claims 17-22 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: The prior art of the record fail to teach or suggest singly and/or in combination an image processing method and apparatus which provides for using storing horizontal linear correction data and vertical linear correction data for correcting an image sensed by an image sensing element as prescribed for in the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/761,304

Art Unit: 2621

5. Applicant's arguments filed February 28, 2005 have been fully considered but they are not persuasive.

The examiner has thoroughly reviewed applicant's arguments on page 7 but firmly believes the cited Topper reference to reasonably and properly meet the claimed limitations as set forth in the broader claims 13-16.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jose L. Couso whose telephone number is (703) 305-4774. The examiner can normally be reached on Monday through Friday from 6:30 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Boudreau, can be reached on (703) 305-4706. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-8576.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jlc May 2, 2005